

10 →

x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x

Source Image (Is)
 Dimension 5x4
 points (pixels)
 Aspect Ratio 5/3
 Anamorphic
 Pixels

0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

Destination
 Image (Id)
 Dimension 10x6
 points(pixels)
 Aspect Ratio 5/3
 Square Pixels

Fig. 1

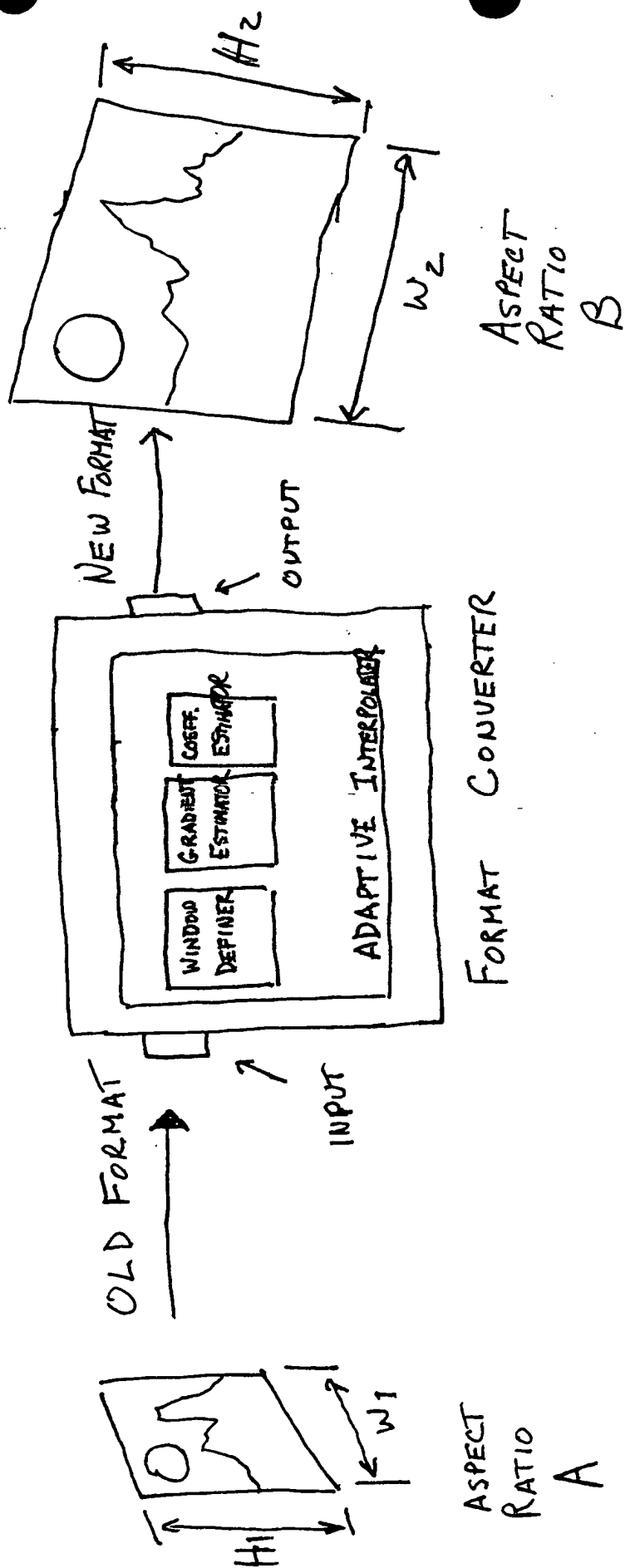


Fig. 2

EXTEND SOURCE IMAGE USING A PLANAR FUNCTION WHICH IS SPACE VARIANT AND ANISOTROPIC

SAMPLE THE FUNCTION AT THE DESIRED SPATIAL RESOLUTION

QUANTIZE SAMPLED VALUES

END

FIG. 3

START



NORMALIZE ASPECT RATIO

- 401



ESTIMATE GRADIENT

- 402



DETERMINE COEFFICIENTS

- 403



END

FIG. 4

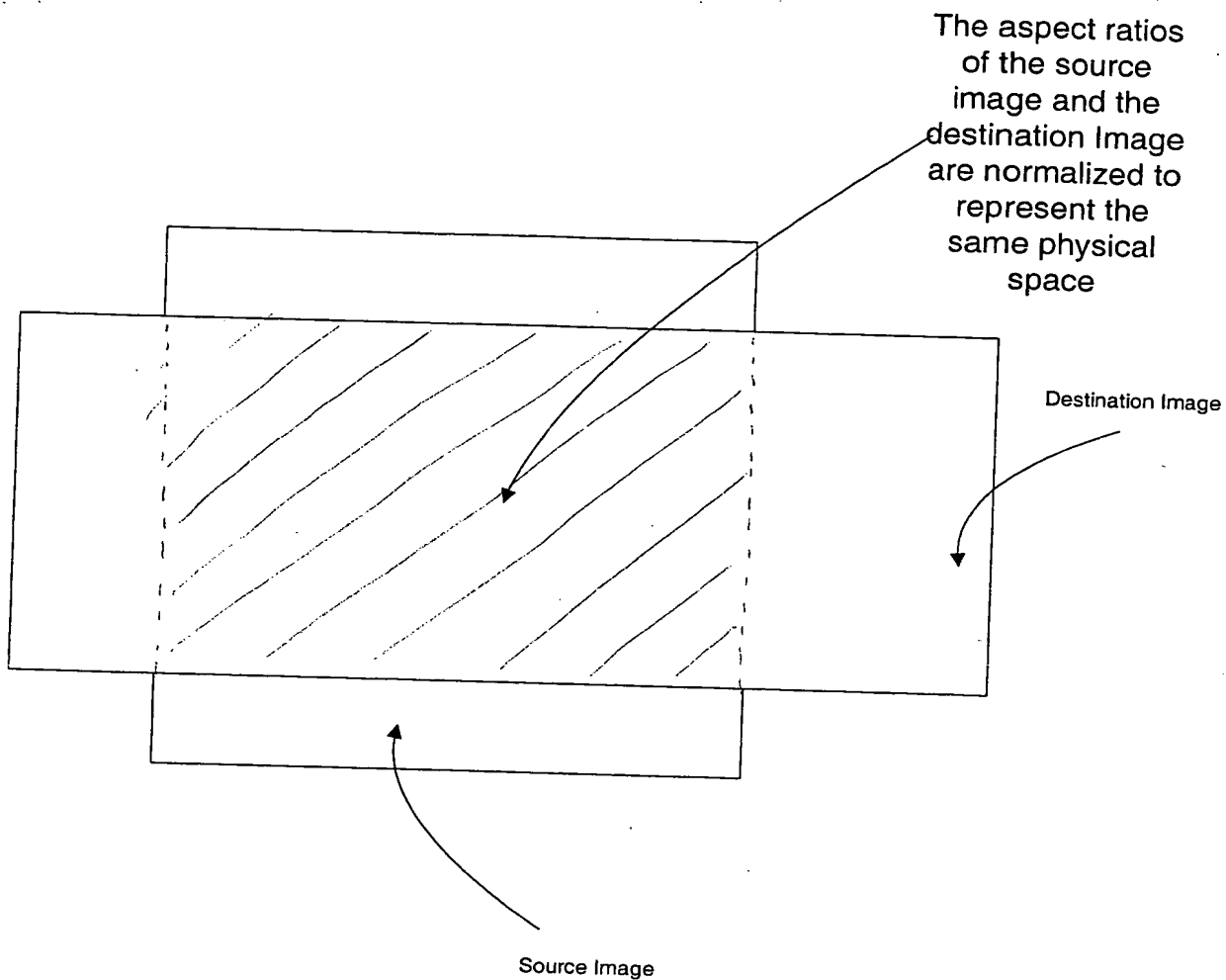


Fig. 4A

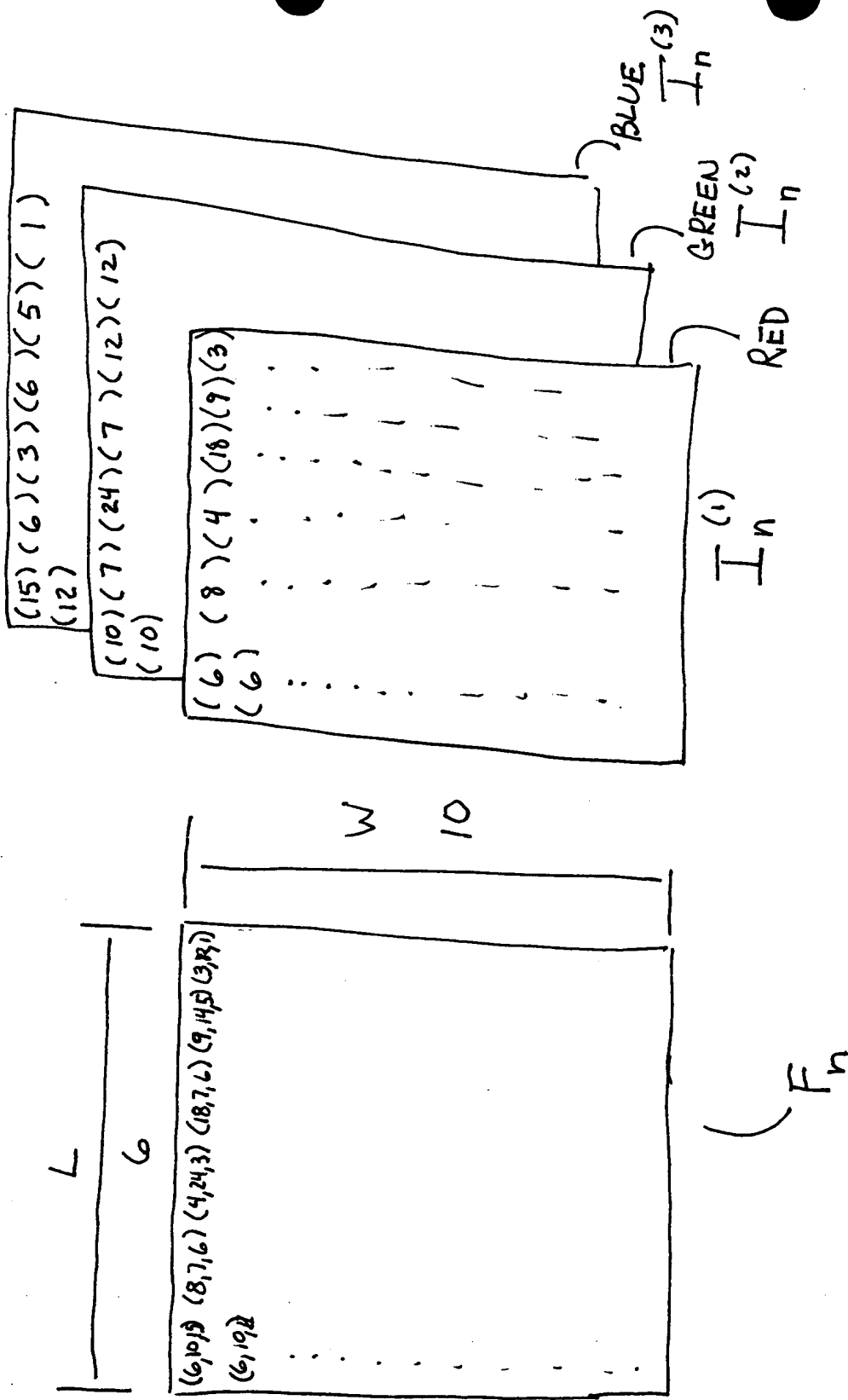


FIG. 5

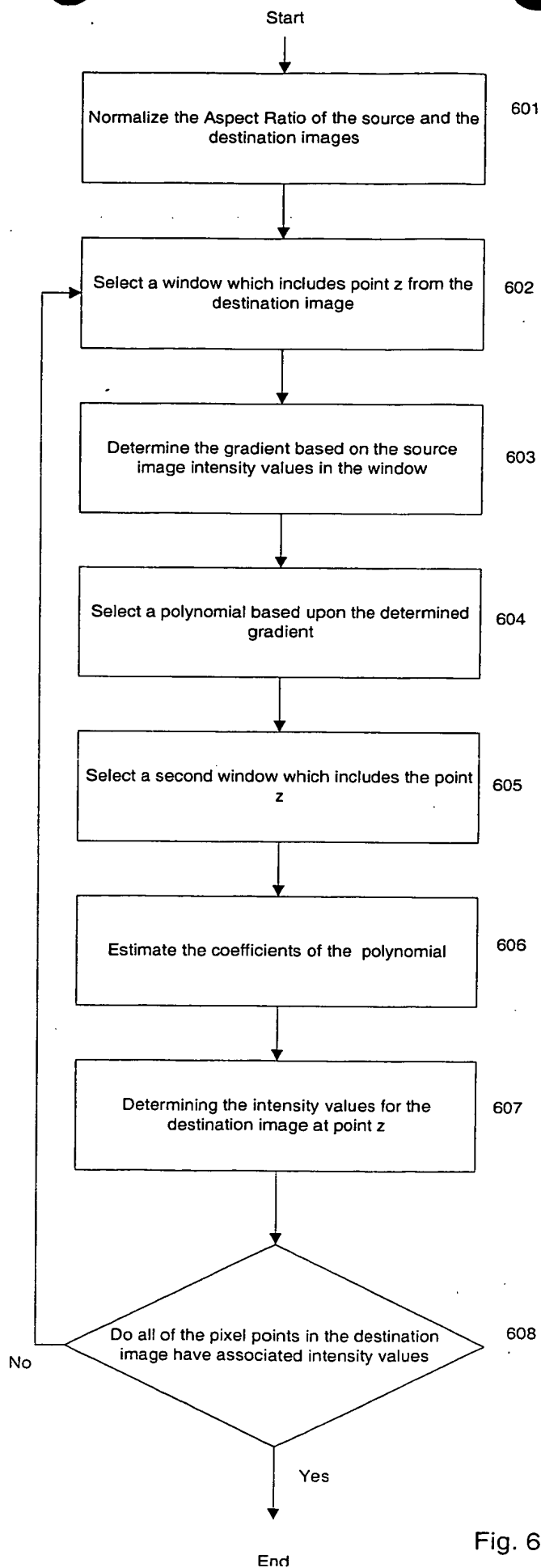
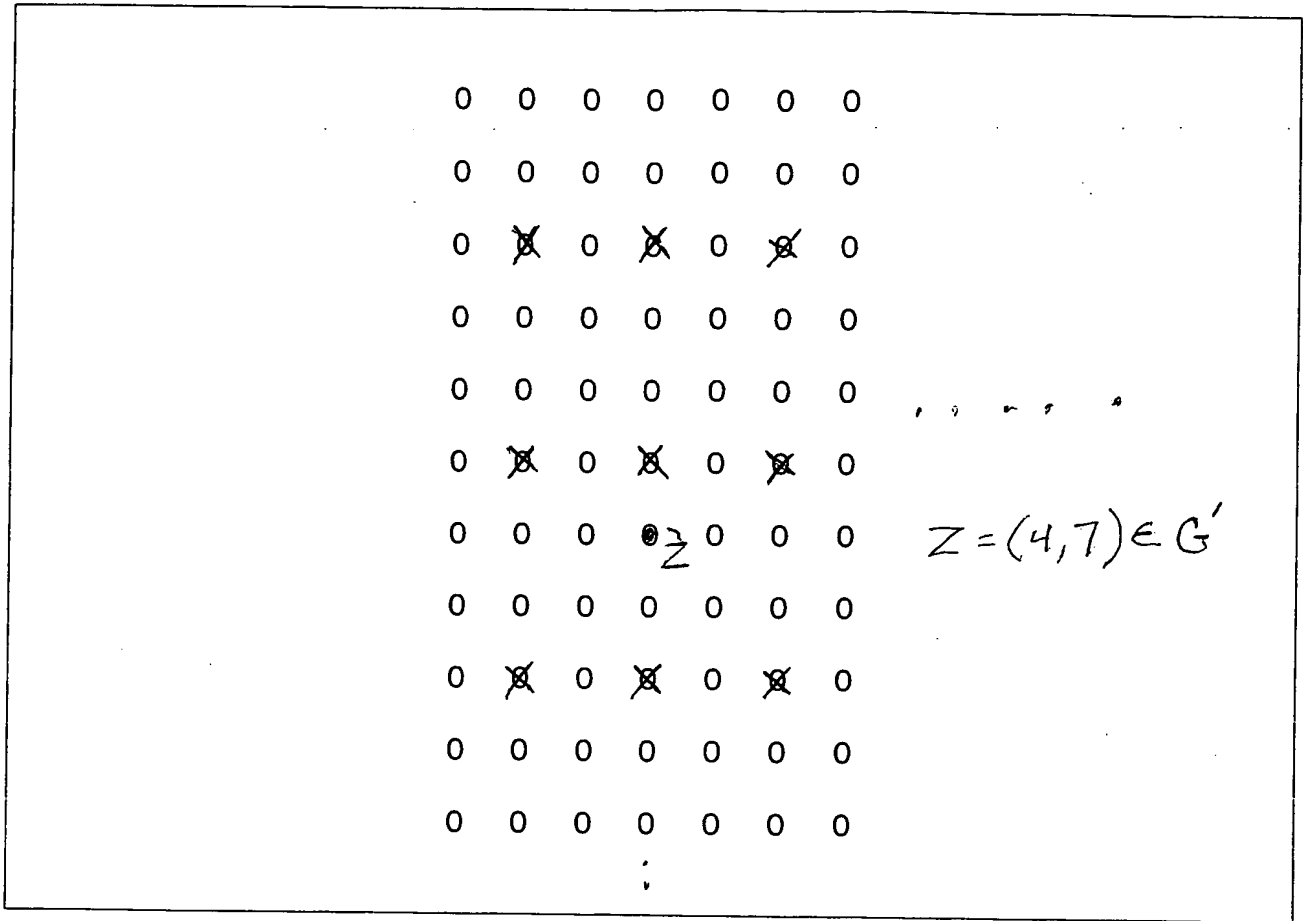


Fig. 6



G: The Points(Pixels) of the Source Image is Represented by X's

G': The Points(Pixels) of the Destination Image is Represented by 0's

Fig. 7

START

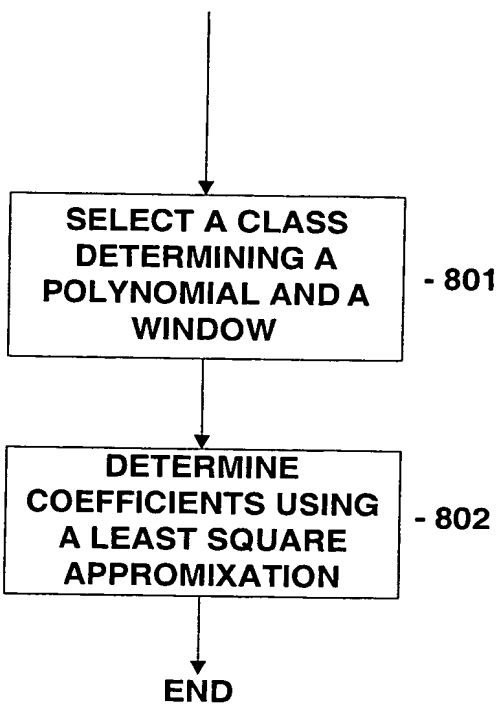


FIG. 8

[illegible]

FIG. 9

ON LINE
(REAL TIME)

OFF-LINE
(PRECALCULATED)

00- SOURCE INTENSITY
VALUES ARE MAPPED
TO THE NEW FORMAT
OF THE DESTINATION
IMAGE

01a- DETERMINE $\vec{\beta}$ FROM
THE SOURCE INTENSITY
VALUES

01- DETERMINE E
COEFFICIENTS

DETERMINE Γ^{-1}
BASED ON THE
TYPE OF WINDOW

- 1001b

02- DETERMINE PIXEL
INTENSITY VALUES
FOR POINT Z IN THE
FORMAT OF THE
DESTINATION IMAGE

FIG. 10

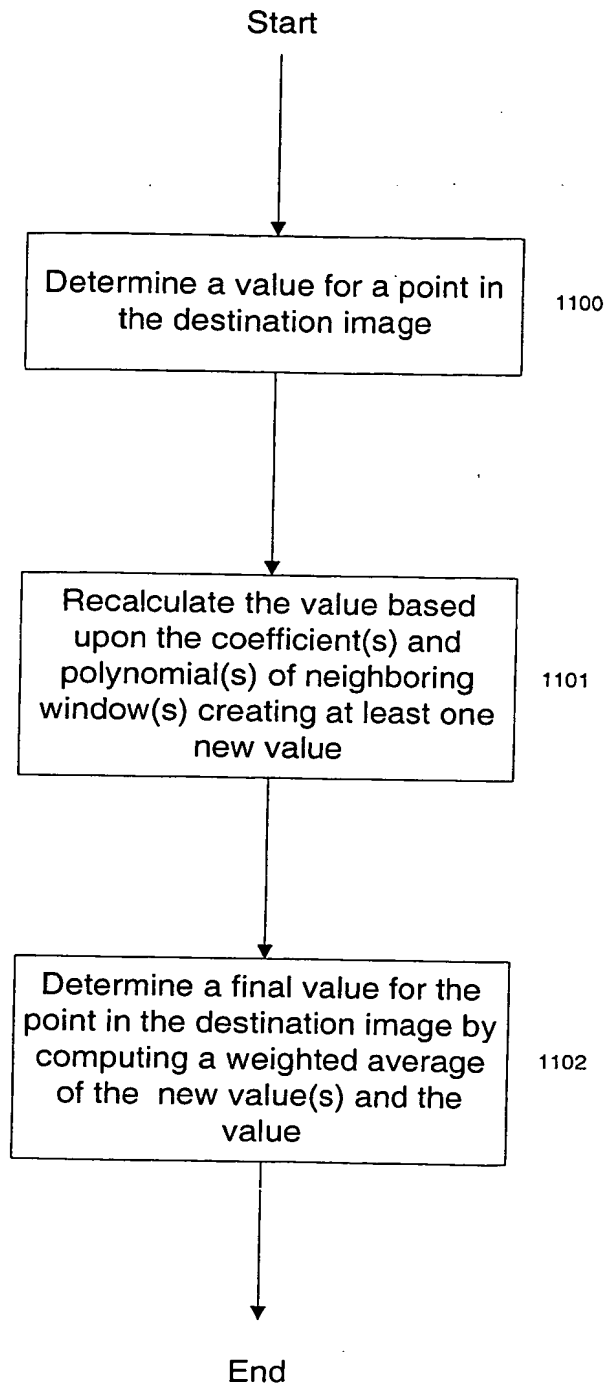


Fig. 11